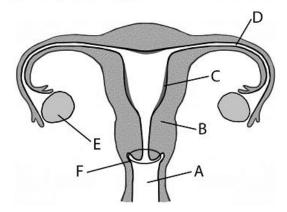
- (a) (i) In humans, widening of the female hips is one example of physical changes that distinguish
 the sexes but are not essential for reproduction.
 To what term does the definition in italics refer?
 - (ii) What term is used for the time in a young person's life when such changes take place?
 - (iii) Name the hormone that maintains such changes throughout the life of a male.
- (b) The diagram shows the reproductive system of the human female.



- (i) Name the parts labelled A, B, C, D, E and F.
- (ii) Using the letters from part (i), identify the following locations:
 - 1. Where meiosis occurs.
 - 2. Where zygote formation occurs.
 - 3. Where implantation occurs.
- (iii) Describe the role of oestrogen and progesterone in the control of the events of the menstrual cycle.
- (c) Answer the following questions in relation to the development of a human zygote.
 - (i) By which type of cell division does the zygote divide?
 - (ii) Further divisions result in the formation of a morula. What is the next developmental stage after the morula?
 - (iii) The placenta forms from tissues of the mother and the foetus. Give two roles of the placenta.
 - (iv) Give one change experienced by the mother that indicates to her that the birth process is starting.
 - (v) Give a short account of the birth process.
- (a) (i) What is semen?
 - (ii) Draw a labelled diagram of the reproductive system of the human male.

On your diagram, indicate clearly and name the part at which each of the following occurs:

- 1. Production of sperm cells.
- 2. Maturing of sperm cells.
- 3. Mixing of fluid with sperm cells.
- 4. Transport of semen.
- (iii) State two secondary sexual characteristics of the human male.
- (iv) What maintains the secondary sexual characteristics in the adult human male?